

Proposal Number **407**

Front End Protection System Upgrade Development

Safety Interlocks Group

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*Argonne National Laboratory is managed by
The University of Chicago for the U.S. Department of Energy*

Project: (ASD 407) Front End Protection System Upgrade Development

Objective: Research and develop a system for replacing aging hardware, which is on the obsolescence path, using the PSS Gen 3.0 PLC platform.

Background Information:

- New Initiative
- Single Year Funding
- Medium priority

Justification:

This project will resolve the obsolescence issues

Consequence:

Some parts used in the existing system are reaching end of life and is on the obsolescence path. A new design is needed to solve the issue and prevent unnecessary lost operation time.

Requested Funds (FY06): \$22.42 K (Operating)

FY	2006	2007	2008	Total
Non effort	\$22.42 K			\$22.42 K
Existing Effort	\$124.29 K			\$124.29 K
New Effort				
Total	\$146.70 K			\$146.70 K

Project: (ASD 407) Front End Protection System Upgrade Development

•Project Details:

- Proactively addressing obsolescence by developing an upgrade path
 - The PLC Technology used in FEEPS is 20+ years old
 - Not currently on the end of life list but some of the hardware used with this system are
- Purchase Items for new system
 - PLC Software license
 - PLC chassis and all associated hardware
- Develop code and test system in the lab
 - All system functions
 - Controls system interface